

CLAIMS OF THE INVENTION

I CLAIM:

1. A method of mixing fluid comprising:

isolating a fluid to be mixed in a container;

providing a mixing structure comprising a shaft extending along an axis, a support mounted to said shaft for rotation therewith, said shaft extending along an axis, a number of vanes mounted for rotation with said support and extending outwardly from said support, said vanes having a length and a width, said length greater than said width, said vanes having an inner edge and an outer edge, said vanes having a first end and a second end, said first ends of said vanes arranged in a generally circular configuration and said second ends of said vanes arranged in a generally circular configuration, said vanes generally defining at least a portion of an interior area of said mixing device, said vanes being curved between their inner and outer edges, each vane curving inwardly from its outer edge towards said interior area and said axis to its inner edge, said vanes spaced apart from one another and defining curved openings there between through which fluid may flow, said vanes having a width between their inner and outer edges, the width of one or more of said vanes at said second end exceeding the width at the first end;

positioning said structure in said container containing fluid to be mixed; and

rotating said mixing structure within said fluid within said container, drawing said fluid into said interior area, expelling said fluid generally radially outward at a high velocity through said openings, dispersing solidified materials in said fluid moving at high radial velocity by impacting said solidified materials upon said inner edges of said vanes.